Abstract of the Disclosure

In accordance with a parallel matrix processing method adopted in a shared-memory scalar computer, a matrix to be subjected to LU 5 factorization is divided into a block D of the diagonal portion and blocks beneath the D diagonal block such as L1, L2 and L3. Then, D + L1, D + L2 and D + L3 are assigned to 3 processors respectively for processing them in parallel. Next, a block U is 10 updated by adopting an LU-factorization method and C1 to C3 are updated with L1 to L3 and U. By carrying out this processing on the inner side gradually decreasing in size as blocks, finally, a portion corresponding to the D diagonal block 15 remains to be processed. By applying the LU factorization to this D portion, the LU factorization for the entire matrix can be completed.

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